Setup Guide

OC810
Outdoor IP Camera

Bell Aliant NextGen Home Security™

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OC810
Outdoor Camera

SET UP GUIDE

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Package Contents

The following items should be included:

1. Outdoor camera
2. Antenna
3. 15M Long Power Adapter
4. Mounting Swivel Connector
5. Mounting Stand
6. Mounting Base
7. Mounting Screws
8. Ethernet Cable (with water sealing cap)

If any of these items are damaged or missing, please contact Bell Aliant at 1 855 851-5599 immediately.

Overview

The outdoor camera has an Integrated Microcomputer and a high quality digital-image sensor, enabling it to display high quality live streaming video.

Features

- **Standalone Design:** The Outdoor Camera is a standalone system with built-in CPU and video encoder. It requires only a power source and a connection to your router.
- **Triple Video Support:** The Outdoor Camera can support H.264, MPEG4 and MJPEG video for different image compression.
- **Wired and Wireless Network Support:** The Outdoor Camera supports either wired or wireless transmission.
- **PIR (Passive Infrared Sensor) Enhanced Motion Detection:** The Outdoor Camera is embedded with a PIR Sensor, which senses infrared light radiating from moving objects within its field of view. Motion detection for large objects, which are undetectable by the PIR Sensor, is achieved by built-in software that compares consecutive video frames for changes. When motion is detected, an alert can be sent, or some other action may be triggered.
- **Day/Night Switch:** With the day/night switching feature, the camera is able to view and record better images even in the dark of night.

Wireless Features

- **Standards Compliant:** The Outdoor Camera complies with the IEEE802.11g (DSSS) specifications for wireless LANs.
- **Supports 802.11n Wireless Stations:** The 802.11n draft standard provides for backward compatibility with 802.11b standard, so 802.11n, 802.11b and 802.11g wireless stations can be used simultaneously.
- **Speeds up to 108Mbps:** All speeds up to the 802.11n maximum of 108Mbps are supported.
- **Security Support:** Full WEP (64/128 Bit), WPA and WPA2 Personal standards are supported on the wireless interface allowing advanced encryption of wireless data.

System Requirements

- To use the Wired Interface, a standard router and network cable are required.
- To use the Wireless Interface, other wireless devices must be compliant with the IEEE802.11b, IEEE802.11g or IEEE802.11 specifications. All wireless stations must use compatible settings.

Physical Details – Outdoor Camera

Front Panel- Outdoor Camera

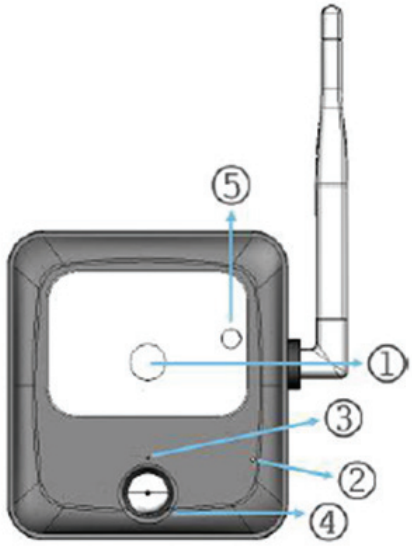


Figure 1: Front Panel – Outdoor Camera

1. **Lens** — No physical adjustment is required or possible for the lens but you should ensure that the lens cover remains clean. Image quality is degraded if the lens cover is dirty or smudged.
2. **Microphone** *(Not currently supported)* — The Outdoor Camera comes with a built-in microphone.
3. **Power LED** — **On**- Powered on
   Off- No power
   Blinking- The Power LED blinks during power up. This can take up to 20 seconds.
4. **Passive Infrared (PIR) Sensor** — The PIR Sensor is designed for motion detection.
5. **Light Sensor** — The Light Sensor detects luminance.

Rear Panel- Outdoor Camera

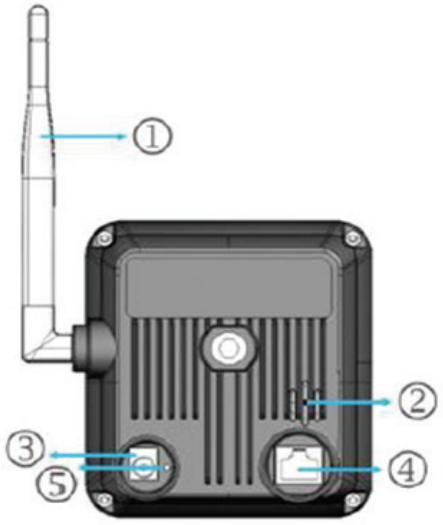


Figure 2: Rear Panel – Outdoor Camera

1. **Antenna** The antenna is adjustable with best results typically obtained with the antenna positioned vertically.

2. **Power Port** The supplied 12V power adapter plugs power to the *wireless camera's* power port.

DO NOT USE ANY POWER ADAPTER OTHER THAN THE ONE SPECIFIED FOR THIS CAMERA. DOING SO MAY DAMAGE THE WIRELESS CAMERA.

3. **Ethernet Port** The Ethernet port allows connectivity of the *wireless camera* to your gateway.

PLUGGING IN THE ETHERNET CABLE WILL DISABLE THE WIRELESS INTERFACE. (ONLY ONE INTERFACE CAN BE ACTIVE AT ANY TIME.)

THE ETHERNET CABLE SHOULD ONLY BE CONNECTED OR DISCONNECTED WHEN THE OUTDOOR DIGITAL CAMERA IS POWERED OFF. ATTACHING OR DETACHING THE ETHERNET CABLE WHILE THE CAMERA IS POWERED ON DOES NOT SWITCH THE INTERFACE BETWEEN WIRED AND WIRELESS.

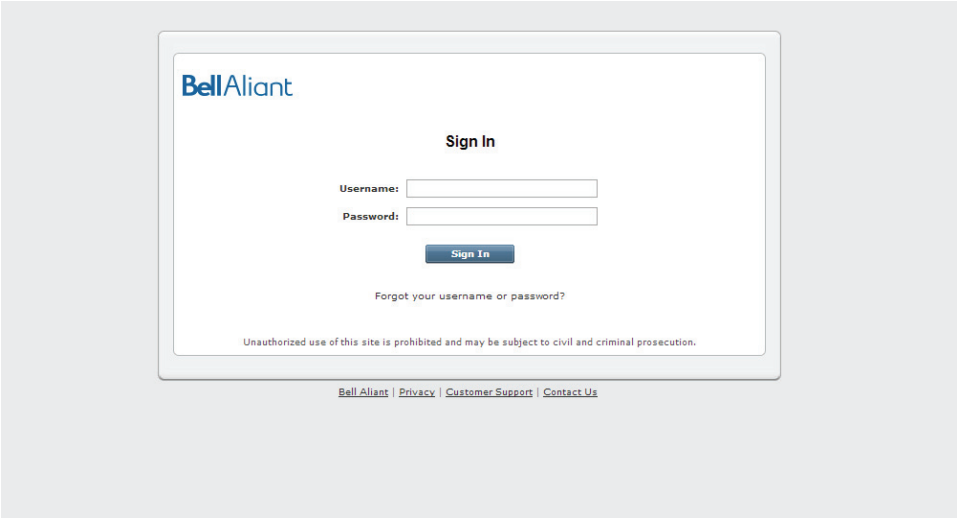
DETACHING THE ETHERNET CABLE WHEN THE OUTDOOR DIGITAL CAMERA IS POWERED ON WILL DISCONNECT THE OUTDOOR DIGITAL CAMERA FROM THE NETWORK.

4. **Reset Button** When pressed and held for ten (10) seconds, the communication configuration of the *wireless camera* will be reset to the default manufacturer settings.

THE RESET BUTTON WILL RESET THE CAMERA COMMUNICATION CONFIGURATION SETTINGS AND SHOULD ONLY BE USED UNDER THE DIRECTION OF NEXTGEN HOME SECURITY SUPPORT.

1. Open your web browser. In the address bar, type: bellaliant.net/homesecurity/signin

2. Type your **Username** and **Password**, and then click the **Sign In** button.

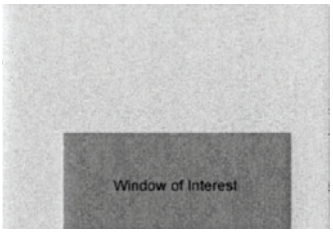


3. Click the **System** tab, and then click the **Manage Devices** button.

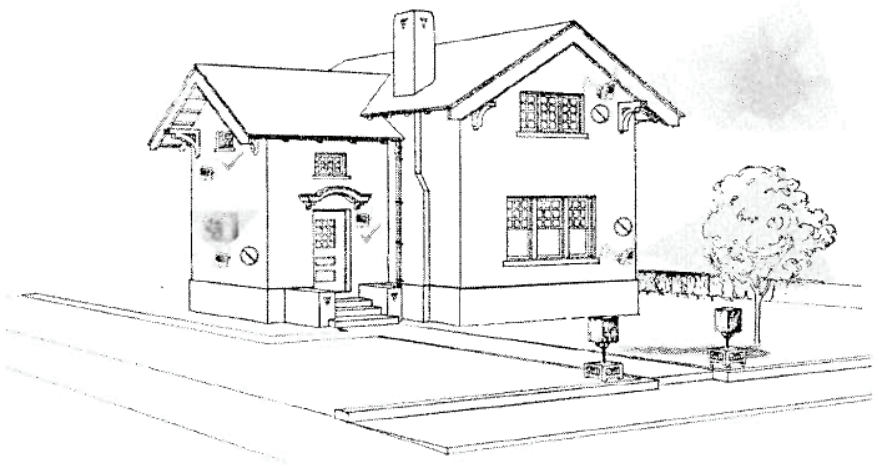
4. Select the type of equipment you are adding and follow the instructions in the installation wizard to add your device.

PIR Video Motion Detection

The motion event will be captured when a significant image changes within the Window of Interest. The Window of Interest is defined below.



The following installation hints should be noted:



1. Take care not to install facing direct sunlight, bodies of water, or areas of moving shadows as these can lead to unintended triggers.
2. Avoid aiming the PIR camera near or toward hot objects such as air conditioners.
3. It is preferable to install the PIR sensor underneath eaves or porch coverings to prevent exposure to rain and ice.
4. Avoid direct sunlight or headlights from automobiles.
5. Avoid breeze and corrosive gases.
6. Make sure that the coverage area of PIR sensor does not extend into undesired areas that might cause unwanted activations.
7. While choosing the installation area, be aware that the PIR sensor may detect unimportant motions, such as moving trees or shadows caused by excessive wind.

NOTE: Video motion detection is susceptible to light reflection, shade or tree/leaves movement, etc. within the Window of Interest. To reduce the number of unwanted video events, please adjust the camera to reduce these noise factors appearing in the Window of Interest.

Enabling the Motion Detection via the NextGen Home Security System

1. Click the **Automations** tab, and then click the **Add Automation** button.
2. Select a trigger for this automation from the Trigger drop-down list.
3. Select **Motion** from the Event drop-down list.
4. Select the conditions under which you want the automation action to occur from Active drop-down list.
5. Click **Add Actions.**
6. From the Delay drop-down list, select the delay option you want to use for this action.
7. Select the desired option from Attach drop-down list
8. Click **OK.**
9. Click **Save.**

Appendix: Specifications

OC810 Wireless Outdoor Day/Night Camera

Model	OC810 Wireless Outdoor Day/Night Camera
Dimensions	94mm (W) * 103mm (H) * 37mm (D)
Operating Temperature	-10˚C to 45 ˚C
Storage Temperature	-20 ˚C to 70 ˚C
Weather Resistance	IP 65
Network Protocols	TCP/IP, HTTP, HTTPS, DHCP, SMTP, FTP, UPnP, DDNS, NTP, RTP, RTCP, RTSP, SMB
Network Interface	1 Ethernet 10/100BaseT (RJ45) LAN connection
Wireless Interface (Wireless Model Only)	IEEE 802.11n/802.11b/802.11g compatible, Infrastructure/Ad-hoc mode, WEP/WPA Personal/WPA2 Personal security support, roaming support
LEDs	1 LED for indicator and 8 IR LEDS
Illuminator	Night range approximately 25 feet
Power Adapter	12V/1A, 100-240 VAC

Regulatory Approvals

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received included interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Approvals

The OC810 Wireless Outdoor Day/Night Camera meets the guidelines of the European Union and complies with the 99/5/EEC and RTTE 99/5EG directives, including the following standards:

- EN60950-1
- EN400 328
- EN301 489
- EN55024

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This product is UL and cUL certified and comply with UL60950-1 Information Technology Equipment applicable requirement.

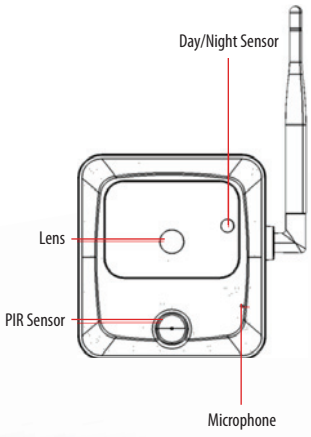
Bell Aliant
NextGen Home Security™

OC810

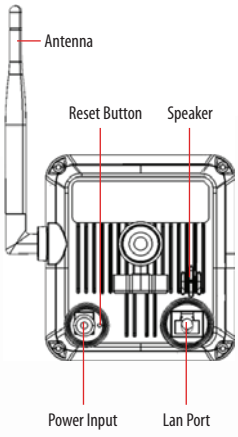
True / Night Vision Outdoor IP Camera

- Built-in Automatic IR-cut Switcher for Day / Night Vision
- Built-in IR LED for Enhancing Low Light Performance
- Built-in Speaker and Microphone for Two Way Audio
- 802.11n Wireless Mode and 10/100 Base-T Ethernet
- IP65 Rating for Outdoor Installation

Illustration

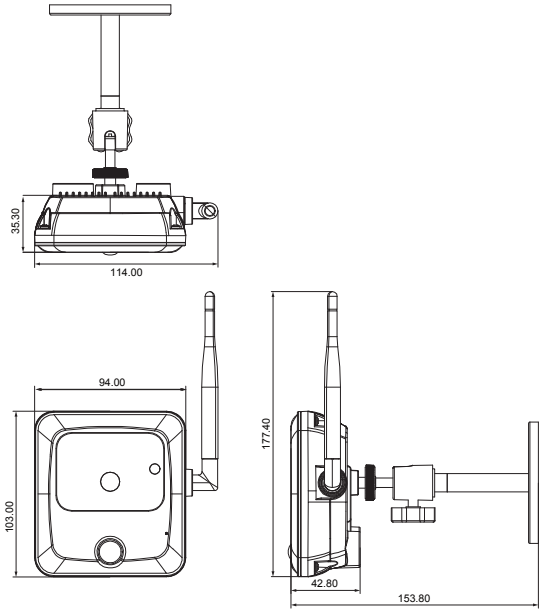


Front Panel



Rear Panel

Dimension Diagram



Sensor and Lens

Image Sensor	1/5" CMOS Sensor
Minimum Illumination	0 Lux (with IR LED)
Lens	Board Mount Type, Fixed-Focal, Aperture F2.0 Diagonal View Angle: 61.2° (Horizontal=50.5°, Vertircal=39.1°)
PIR Sensor	Detection Range 5 Meters (15 feet)

Video

Video Compression	H.264, MPEG-4 SP, M-JPEG
Video Streaming	Simultaneous H.264, MPEG-4 and M-JPEG, 3GPP Compatible
Image Settings	Flip, Mirror, Brightness, Sharpness, White Balance
Resolution and Frame Rate	VGA, QVGA, QQVGA, Up to 30 fps (frame per second)

Audio

Audio	Build-in Microphone and Speaker, Bi-directional Audio (Full-Duplex), G.711, G.726, LPCM

(Microphone not currently supported)

Alarm and Event Management

Alarm and Event Management	Motion Detection, PIR Sensor

Network

Ethernet	10/100 Base-T, Auto-MDIX
Protocols	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, SMTP, FTP, HTTP, RTP, RTSP, RTCP, UPnP, DDNS, PPPoE, HTTPS, Bonjour, WINS
Wireless	IEEE802.11b/g/n, WEP64/128 bit, WPA/WPA2 Personal, WPS

Software

Applications	Setup Wizard, Video Software (Viewer, Recorder and Playback)
Web Browsers	Internet Explorer 6 or Later, Firefox, Google Chrome, Safari

Hardware

Connectors	RJ-45 for Ethernet DC Power Jack
Processors and Memory	SoC: ARM9 Flash: 8 MB RAM: 128 MB
LED and Button	LED: Power Button: Reset
Night Vision	IR LED x 8 Light Sensor x 1, Auto IR CUT Switcher, Range: Above 5 Metters
Power Consumption	12V DC / Max 4.8W
Compliance	CE, FCC Power Supply: UL
Dimensions (H x W x D)	103mm x 94mm x 37mm (4.1" x 3.7" x 1.5")
Weight	900g

Environment

Operation	Temperature: -10° - 45°C (14° - 113°F); Humidity: 10% - 80% RH (non-condensing)
Storage	Temperature: -20° - 70°C (-4° - 158°F); Humidity: 10% - 90% RH (non-condensing)

Accessories

Accessories	Power Supply (12V / 1A, 100-240VAC), A/V Cable, SW CD, Quick Installation Guide, Stand

Ordering Information

Ordering Information	OC810: True Day / Night Vision Outdoor IP Camera